



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/607,065	06/29/2000	Jussi Ruutu	975.306USW1	7291

22865 7590 08/12/2002

ALTERA LAW GROUP, LLC  
6500 CITY WEST PARKWAY  
SUITE 100  
MINNEAPOLIS, MN 55344-7704

EXAMINER

NGUYEN, BRIAN D

ART UNIT PAPER NUMBER

2661

DATE MAILED: 08/12/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/607,065

Applicant(s)

RUUTU ET AL.

Examiner

Brian D Nguyen

Art Unit

2661

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 08 July 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 4-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 4-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

Art Unit: 2661

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

2. Claims 1-2 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Timbs et al (6,018,521).

Regarding claims 1-2 and 4, Timbs discloses a broadband cellular network device comprising a base station control unit (220) for controlling the distribution of ATM cells, an ATM controller (250, 252), separate from the BSC, connected to and being controlled by the BSC, and an ATM switch (251) , wherein the ATM controller being arranged to provide an interface for converting commands of a first protocol issued by the BSC into commands of a second communication protocol causing switching actions of the ATM switch. Wherein the base station control unit provide either a software, hardware, or mixed of hardware/software implementation of BSC function and comprises an ATM controller instructions adapted to instruct the ATM controller (see abstract; Figures 1A, 9A & 9C; col. 1, lines 10-14; col. 3, lines 22-27; col. 4, lines 54-56; col. 6, lines 37-48 & 60-66; col. 8, lines 59-61; col. 9, lines 7-10; and col. 13, lines 39-43).

Art Unit: 2661

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Timbs et al (6,018,521) in view of Korpela (5,946,634).

Regarding claims 5 and 6, Timbs discloses all the claimed subject matter as described in previous paragraph except for the at least two functional layers such as cellular network related upper layer and ATM related lower layer. However, these two layer are well known in the art. Korpela discloses a mobile communication system including these two layer (see Figure 6; col. 4, lines 4-6 & 37-46; and col. 5, lines 39-47). Therefore, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to arrange the system to include the at least two functional layers as taught by Korpela in the system of Timbs since this is a common practice in the art.

5. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Timbs et al (6,018,521) in view of Takase et al (5,963,555).

Timbs discloses all the claimed subject matter as described in previous paragraph except for adapting a General Switch Management Protocol (GSMP). However, using the GSMP is well known in the art. Takase discloses the use of GSMP (see col. 2, lines 15-17). Therefore, it would

Art Unit: 2661

have been obvious to a person of ordinary skill in the art at the time the invention was made to use the GSMP as taught by Takase in the system of Timbs to improve system flexibility.

### ***Response to Arguments***

6. Applicant's arguments filed 7/8/02 have been fully considered but they are not persuasive.

Applicant argued that Timbs does not provide a separate ATM controller to control ATM switch 251, Timbs requires that the call control mobility management 118, which is internal to BSC 220, to provide control to ATM switch 251, and BSC of Timbs is, therefore, an ATM capability, which provides a single communication protocol to control ATM functions. This argument is not persuasive because the ATM controller 252 (ATM transcoder) separate from the BSC 220 and control the ATM switch 251 and provide an interface for converting between the first and second protocols as in the claimed invention.

### ***Conclusion***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Nguyen whose telephone number is (703) 305-5133. The examiner can normally be reach on Monday-Thursday from 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Olms, can be reach on (703) 305-4703. The fax phone number for this Group is (703) 872-9314.

Art Unit: 2661

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 306-0377

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

(703) 872-9314 (for formal communications intended for entry)

**Or:**

(703) 872-9314 (for informal or draft communications, please label

“PROPOSED” or DRAFT”)

Hand-delivered response should be brought to Crystal Park II, 2021 Crystal Drive,  
Arlington VA., Sixth Floor (Receptionist).

Aug. 8, 2002



Brian Nguyen



DANG TON  
PRIMARY EXAMINER